

**6th Math 1.3b**

Name: \_\_\_\_\_

Class: \_\_\_\_\_

Date: \_\_\_\_\_

1. Which factor is missing from the prime factorization of 36?

$$2 \times 2 \times 3 \times \underline{\hspace{1cm}}$$

- A. 3
- B. 6
- C. 2
- D. 4

2. Which factor is missing from the prime factorization of 48?

$$2 \times 2 \times 2 \times \underline{\hspace{1cm}} \times 3$$

- A. 3
- B. 8
- C. 4
- D. 2

3. Which factor is missing from the prime factorization of 72?

$$2 \times 2 \times 2 \times 3 \times \underline{\hspace{1cm}}$$

- A. 2
- B. 3
- C. 9
- D. 8

4. What is the prime factorization of 27?

- A.  $3 \times 9$
- B.  $3 \times 3 \times 3 \times 3$
- C.  $3 \times 3 \times 3$
- D.  $3 \times 3 \times 9$

5. What is the prime factorization of 18?

- A.  $2 \times 2 \times 2 \times 3$
- B.  $2 \times 2 \times 3 \times 3$
- C.  $3 \times 6$
- D.  $2 \times 3 \times 3$

6. What is the prime factorization of 33?

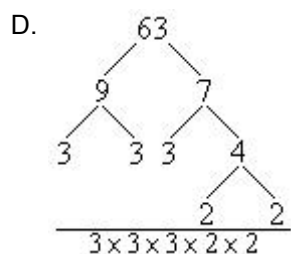
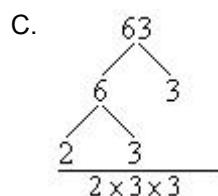
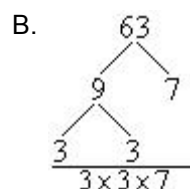
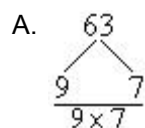
A.  $3 \times 11$

B. 33 is prime

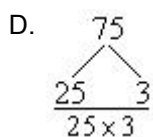
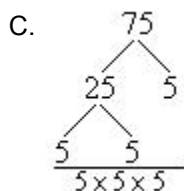
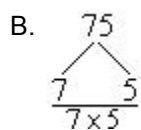
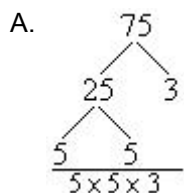
C.  $3 \times 3$

D.  $3 \times 3 \times 11$

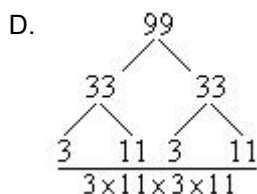
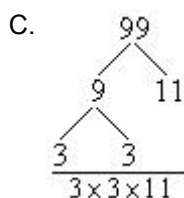
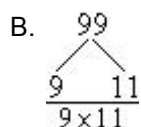
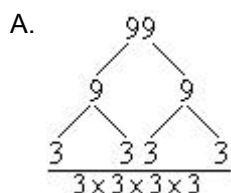
7. Which factor tree shows the prime factorization of 63?



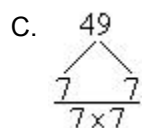
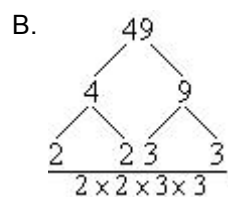
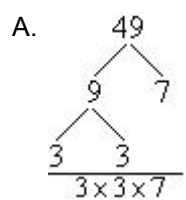
8. Which factor tree shows the prime factorization of 75?



9. Which factor tree shows the prime factorization of 99?



10. Which factor tree shows the prime factorization of 49?



- D. 49 is prime